

I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A radiation source module comprising:
a frame comprising a first support member, a second support member opposed to
the first support member and a third support member interconnecting the first support member
and second support member,

a radiation source assembly supported by the first support member and the second
support member, and

a seal disposed on a first surface of the third support member, substantially
parallel to a fluid flow direction, the seal operable to provide a substantially fluid tight seal
between the first surface and a second surface which is adjacent to the first surface.

2. (Cancelled).

3. (Cancelled).

4. (Cancelled).

5. (Cancelled).

6. (Original) The radiation source module defined in claim 1, wherein a power supply is disposed in the frame.

7. (Original) The radiation source module defined in claim 1, further comprising an extraction system for moving the module between an in-use and in-service position with respect to a fluid treatment system.

8. (Original) The radiation source module defined in claim 1, wherein the seal comprises an expandable seal.

9. (Original) The radiation source module defined in claim 1, wherein the seal comprises a deformable seal.

10. (Currently Amended) A fluid treatment system comprising:
an open channel for receiving a flow of fluid, having a fluid flow direction, and
at least one radiation source module disposed in the channel, a surface of the at
least one radiation source module, in combination with the open channel, confining fluid to be
treated in a closed fluid treatment zone,

the radiation source module comprising: (i) a first support member, (ii) a second
support member opposed to the first support member, (iii) a third support member
interconnecting the first support member and second support member, (iv) at least one radiation

source assembly disposed in the fluid treatment zone and supported by the first support member and the second support member and (iv) a seal disposed on a first surface of the third support member, substantially parallel to the fluid flow direction, the seal operable to provide a substantially fluid tight seal between the first surface and a second surface which is adjacent to the first surface.

11. (Cancelled).

12. (Cancelled).

13. (Cancelled).

14. (Cancelled).

15. (Cancelled).

16. (Previously Presented) The fluid treatment system defined in claim 10, comprising a plurality of radiation source modules in side-by-side arrangement.

17. (Currently Amended) The fluid treatment system defined in claim 10, wherein a power supply is disposed on the frame one of the first, second, or third support members.

18. (Original) The fluid treatment system defined in claim 10, further comprising an extraction system for allowing movement of the module between an in-use and in-service position with respect to a fluid treatment system.

19. (Original) The fluid treatment system defined in claim 10, wherein the radiation source module further comprises a blocking plate which obstructs the open channel when the radiation source module is in an extracted position.

20. (Original) The fluid treatment system defined in claim 10, wherein the seal comprises an expandable seal.

21. (Original) The fluid treatment system defined in claim 10, wherein the seal comprises a deformable seal.

22. (Currently Amended) A fluid treatment system comprising:
an open channel for receiving a flow of fluid,
a confining element having a pivot structure causing the confining element to be moveable during flow of fluid in the open channel by rotation or translation between a first position to define a closed zone and a second position to define an open zone, and

at least one radiation source module disposed in the channel and having at least one radiation source element, at least a portion of the radiation source element being disposed in the closed zone when the confining element is in the first position.

23. (Cancelled).

24. (Cancelled).

25. (Original) The fluid treatment system defined in claim 22, wherein the confining element and the radiation source module are integral.

26. (Original) The fluid treatment system defined in claim 22, wherein the radiation source element comprises a longitudinal axis disposed substantially parallel to the direction of fluid in the open channel.

27. (Original) The fluid treatment system defined in claim 22, wherein the radiation source element comprises a longitudinal axis disposed transverse to the direction of fluid in the open channel.

28. (Original) The fluid treatment system defined in claim 25, comprising a plurality of radiation source modules disposed substantially adjacent to one another.

29. (Original) The fluid treatment system defined in claim 28, wherein at least one sealing element is disposed between adjacent pairs of the plurality of radiation source modules.

30. (Original) The fluid treatment system defined in claim 28, further comprising at least one spacer module disposed between adjacent pairs of the plurality of radiation source modules.

31. (Original) The fluid treatment system defined in claim 30, wherein the spacer module comprises a first seal disposed on the spacer module, the first seal arranged to provide a seal between the spacer module and a first adjacent radiation source module.

32. (Original) The fluid treatment system defined in claim 30, wherein the spacer module comprises a first seal and a second seal disposed on opposed sides of the spacer module, the first seal arranged to provide a seal between the spacer module and a first adjacent radiation source module, and the second seal capable arranged to provide a seal between the spacer module and a second adjacent radiation source module.

33. (Cancelled).

34. (Cancelled).

35. (Cancelled).

36. (Cancelled).

37. (Cancelled).

38. (Cancelled).

39. (Cancelled).

40. (Cancelled).

41. (Cancelled).

42. (Cancelled).

43. (Cancelled).

44. (Cancelled).

45. (Cancelled).

46. (Cancelled).

47. (Cancelled).